

## INTERNATIONAL SEARCH REPORT

Int'l Application No  
PCT/GB2004/003038

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 HO4R7/04

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 HO4R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00/78090 A (NEW TRANSDUCERS LTD ; BANK GRAHAM (GB); HARRIS NEIL (GB)) 21 December 2000 (2000-12-21) cited in the application	1-13
Y	page 1, line 27 - page 2, line 14; claims 3,4,9,11; figure 1 page 3, line 9 - line 14 page 5, line 17 - page 6, line 8	14
X	WO 00/33612 A (NEW TRANSDUCERS LTD ; BANK GRAHAM (GB); STARNES MARK (GB)) 8 June 2000 (2000-06-08)	1-13
Y	page 3, line 16 - line 22 page 4, line 3 - page 6, line 5 page 7, line 4 - line 8 page 8, line 2 - page 10, line 23 page 11, line 15 - line 19 page 14, line 8 - line 24; figures 1-3,8,9	14
		-/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

17 December 2004

Date of mailing of the international search report

11/01/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl.  
Fax (+31-70) 340-3016

Authorized officer

Timms, O

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/GB2004/003038

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 065 810 A (BEARD TERRY D) 1 December 1982 (1982-12-01) page 2, line 7 – page 4, line 7; figures 2,3 -----	1-13
A	WO 97/09842 A (AZIMA HENRY ; HARRIS NEIL (GB); COLLOMS MARTIN (GB); VERITY GROUP PLC) 13 March 1997 (1997-03-13) cited in the application the whole document -----	
A	HARRIS N J ET AL: "Introduction to distributed mode loudspeakers (DML) with first-order behavioural modelling" IEE PROCEEDINGS: CIRCUITS DEVICES AND SYSTEMS, INSTITUTION OF ELECTRICAL ENGINEERS, STENVENAGE, GB, vol. 147, no. 3, 8 June 2000 (2000-06-08), pages 153-157, XP006013855 ISSN: 1350-2409 the whole document -----	
A	BAI MINGSIAN R ET AL: "Development of panel loudspeaker system: Design, evaluation and enhancement" JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA, AMERICAN INSTITUTE OF PHYSICS. NEW YORK, US, vol. 109, no. 6, June 2001 (2001-06), pages 2751-2761, XP012002317 ISSN: 0001-4966 the whole document -----	

## INTERNATIONAL SEARCH REPORT

In **International Application No**  
**PCT/GB2004/003038**

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 0078090	A	21-12-2000		AU 5089600 A CN 1356015 T DE 60004045 D1 DE 60004045 T2 EP 1186203 A2 WO 0078090 A2 HK 1040875 A1 JP 2003501982 T NZ 515328 A TW 479434 B US 6456723 B1	02-01-2001 26-06-2002 28-08-2003 06-05-2004 13-03-2002 21-12-2000 17-10-2003 14-01-2003 26-04-2002 11-03-2002 24-09-2002
WO 0033612	A	08-06-2000		AU 1571800 A BR 9916144 A CN 1328762 T EP 1135966 A2 WO 0033612 A2 JP 2002532038 T TW 469746 B	19-06-2000 06-11-2001 26-12-2001 26-09-2001 08-06-2000 24-09-2002 21-12-2001
EP 0065810	A	01-12-1982		EP 0065810 A2 JP 57192195 A	01-12-1982 26-11-1982
WO 9709842	A	13-03-1997		AT 177579 T AT 177574 T AT 177580 T AT 177575 T AT 186617 T AT 177581 T AT 177582 T AT 177583 T AT 177578 T AT 177576 T AT 179297 T AT 177577 T AT 179563 T AT 176826 T AT 179045 T AT 179296 T AT 177281 T AT 179564 T AT 177282 T AT 179043 T AT 179044 T AU 702865 B2 AU 6880196 A AU 702920 B2 AU 6880296 A AU 702867 B2 AU 6880396 A AU 703015 B2 AU 6880496 A AU 702863 B2 AU 6880596 A AU 702873 B2 AU 6880696 A AU 702999 B2 AU 6880796 A	15-03-1999 15-03-1999 15-03-1999 15-03-1999 15-11-1999 15-03-1999 15-03-1999 15-03-1999 15-03-1999 15-03-1999 15-05-1999 15-03-1999 15-05-1999 15-03-1999 15-04-1999 15-05-1999 15-03-1999 15-03-1999 15-05-1999 15-03-1999 15-04-1999 15-04-1999 11-03-1999 27-03-1997 11-03-1999 27-03-1997 11-03-1999 27-03-1997 11-03-1999 27-03-1997 11-03-1999 27-03-1997 11-03-1999 27-03-1997 11-03-1999 27-03-1997 11-03-1999 27-03-1997 11-03-1999 27-03-1997

## INTERNATIONAL SEARCH REPORT

Int'l Application No  
PCT/GB2004/003038

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9709842	A	AU 703061 B2	11-03-1999
		AU 6880896 A	27-03-1997
		AU 703000 B2	11-03-1999
		AU 6880996 A	27-03-1997
		AU 703071 B2	11-03-1999
		AU 6881096 A	27-03-1997
		AU 703058 B2	11-03-1999
		AU 6881296 A	27-03-1997
		AU 705592 B2	27-05-1999
		AU 6881396 A	27-03-1997
		AU 703296 B2	25-03-1999
		AU 6881496 A	27-03-1997
		AU 699890 B2	17-12-1998
		AU 6881596 A	27-03-1997
		AU 703198 B2	18-03-1999